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FLEXIBLE COUPLINGS

HAND BOOK BY

POOLE ENGINEERING & MACHINE CO.
BALTIMORE, MD.

POOLE FLEXIBLE COUPLINGS

64/9

FLEXIBLE COUPLINGS

Their Value
and
Many Advantages

Published by
The Poole Engineering and Machine Co.
Baltimore, Maryland
U. S. A.

POOLE PRODUCTS

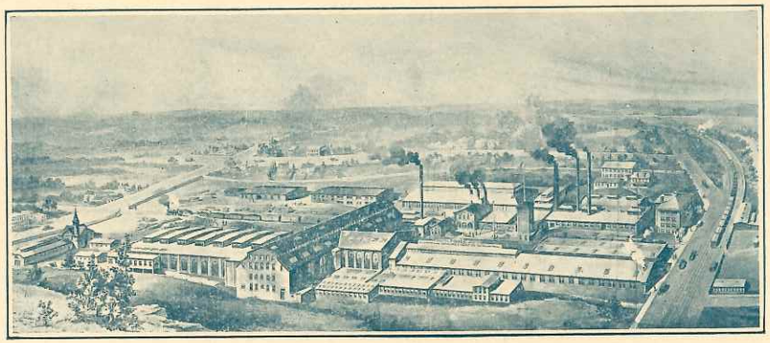
FLEXIBLE COUPLINGS

SPEED INCREASING OR DECREASING GEARS

MACHINE MOULDED AND CUT GEARS

GREY IRON AND SEMI STEEL CASTINGS

SPECIAL MACHINERY TO ENGINEERS' DRAWINGS AND SPECIFICATIONS



MAIN OFFICE AND WORKS
BALTIMORE, MARYLAND

MEN HAVE KNOWN the art of making fine machinery for many years. Every day machines of unnumbered variety are being connected together to accomplish the work of the world, and upon their efficiency depends progress, advancement, and economy. Today we connect our machinery in a manner in keeping with modern knowledge and science, and to this end Flexible Couplings are daily doing their part.

THE VALUE OF FLEXIBLE COUPLINGS

The advantage of using FLEXIBLE COUPLINGS on all direct connected machinery is now recognized and appreciated by Engineers and Operating men, generally. FLEXIBLE COUPLINGS are intended to compensate for the usual and unavoidable errors in alignment and should also allow free lateral float to the connected shafts. Even when unusually favorable conditions permit perfect alignment of two shafts there is no assurance that they will remain so. Changes of temperature, wear of bearings, vibration, etc., are all common enemies to the safe and efficient operation of connected machinery and these can only be offset by the use of suitable FLEXIBLE COUPLINGS.

REQUIREMENTS OF FLEXIBLE COUPLINGS

FLEXIBLE COUPLINGS to function properly must be capable of transmitting efficiently and uniformly the full power of the connected machines. They must compensate for a slight shaft misalignment due to operating conditions without undue strain on shafts or bearings and they must permit free endwise float to each shaft which is particularly desirable in electrical or gear driven machinery. They must likewise guard

against torsional motions, the expansion and contraction of either or both machines and be capable of sudden reversals without strain to themselves or the machinery which they protect. The necessity of a high grade and efficient COUPLING can therefore be readily seen as it multiplies many times the life of connected machinery aside from adding tremendously to its operating efficiency.

TYPES OF FLEXIBLE COUPLINGS

There are numerous types of FLEXIBLE COUPLINGS which claim to meet these requirements. The Spring Cushioning type where the load is transmitted through members depending upon the Flexibility of various materials is subjected to trouble due not only to the fatigue and breakage of these materials but also to the inevitable binding action which retards lateral shaft float.

The Bushing type of FLEXIBLE COUPLING is one of the oldest forms. However, the materials wear and deteriorate to such an extent that parts require frequent replacing.

For these reasons and many others it is now generally conceded that the most practical and reliable FLEXIBLE COUPLING is the simple All Metal Lubricated type which has no springs, bushings or other loose parts.

The Poole
All Metal Flexible Coupling

THE POOLE PATENTED FLEXIBLE COUPLING has been developed to meet the popular demand for a reliable and efficient FLEXIBLE COUPLING, correctly designed to cover all FLEXIBLE COUPLING requirements.

POOLE FLEXIBLE COUPLINGS have been in continuous service for over six years and are now being manufactured in various types to suit all service conditions.

FEATURES

The POOLE FLEXIBLE COUPLING is simple in design, composed of few parts, which are easy to assemble. It has no springs to crystallize and break, and no pins or bushings to require frequent replacement. It is self aligning, with no binding action at any point of its revolution, its floating sleeves supported on crowned teeth being as free to align themselves as a ball and socket joint. It can be used on reversing service without noise or vibration. It has more strength than the connecting shafts. This means that when the shaft size is correct, the coupling can be ordered to suit the shaft, regardless of load, speeds or utility factors.

The POOLE FLEXIBLE COUPLING is expecially suited for high speeds as each half is in perfect balance and concentrically supported on its own shaft. It presents a smooth exterior surface with no protruding parts. Bolt heads and nuts are fully protected. Its rugged construction with large bearing surfaces make it equally desirable for heavy duty, slow speed drives.

MATERIALS AND HEAT TREATMENT

Poole Couplings are made from high grade steel forgings up to and including size No. 5. Above this, Steel Castings of finest quality are used. ALL TYPES AND SIZES ARE CAREFULLY HEAT TREATED TO RIGID SPECIFICATIONS. Engineers and Plant Operators will immediately appreciate the value of this feature which resists wear even under the most severe conditions.

OPERATION

POOLE FLEXIBLE COUPLINGS carry their load on crowned gear teeth formed on the periphery of each shaft hub, which mesh with corresponding teeth on the interior of a floating and connecting sleeve member. This construction permits large bearing surfaces and low unit stresses to transmit the load. In case of shaft misalignment the crowned teeth allow the floating sleeve to rock and assume a neutral position without binding action as the shafts rotate. The gear teeth are the only parts in contact and they are continually submerged in oil under centrifugal pressure while running, which ensures ample lubrication and the practical elimination of friction and wear. We know of no other coupling embodying this most essential design which in itself safeguards the machinery against sudden breakdown.

INSTALLATION

The POOLE FLEXIBLE COUPLING is one of the easiest to assemble and line up. Each half coupling, consisting of hub and sleeve, is mounted on its shaft, then the shafts are brought together to the proper separation and lined up from the true aligning surfaces provided on each hub. The sleeves are then bolted rigidly together, and the coupling filled with oil. It is then ready for operation.

A book giving complete instructions is shipped with each Poole Coupling.

LUBRICATION

An Oil filling plug is provided on one side of the Coupling flange where oil should be poured in before starting up. When the coupling is running, the oil spreads out under centrifugal pressure so that the sleeve bearings and gear teeth are entirely submerged in oil, which effectually prevents wear on any contact surfaces, and assures positive lubrication as long as there is any oil in the coupling, a decided advantage over any other type, and positive insurance against trouble.

POOLE FLEXIBLE COUPLINGS can also be lubricated while in operation by pouring oil into the oil collector rings provided at the ends, from where it is drawn into the coupling by centrifugal action.

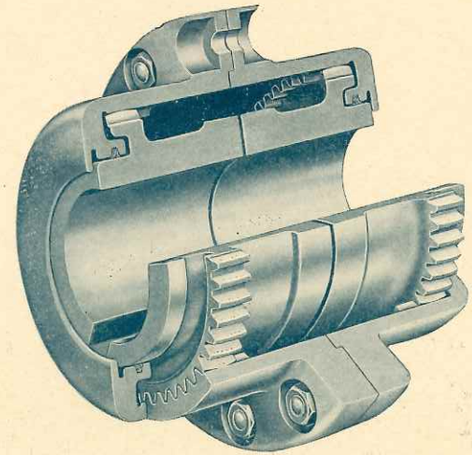
A good grade of heavy gear lubricating oil should be used. Grease or light machine oil should never be used.

MAINTENANCE

When properly installed a POOLE FLEXIBLE COUPLING requires no further attention except to check up the shaft alignment occasionally and add oil when necessary. Most satisfactory operation is obtained when the alignment is kept as correct as possible.

GUARANTY

We guarantee each new POOLE FLEXIBLE COUPLING to be mechanically perfect and will replace any part or parts returned to us, transportation prepaid, which might fail in service, due to defective material or workmanship, within one year from date of installation. This guaranty is, however, absolutely contingent on the proper installation and lubrication of the coupling, and this Company cannot be responsible for any neglect in carrying out these instructions.



Above we show a sectionalized view of the POOLE FLEXIBLE COUPLING which reveals its simplicity of construction.

Note the positive gear contact with crowned teeth giving support at their outside diameter where lubrication is always maintained through centrifugal force. Poole Couplings will lubricate perfectly to the last few drops, a decided advantage over any other type.

There are no Flexing materials to require frequent replacement.

Its Gear Tooth double engagement with spherically formed outer faces permit self alignment without binding action at any point.

It is all steel with each member heat treated to rigid specifications. A feature which alone puts it in a class by itself.

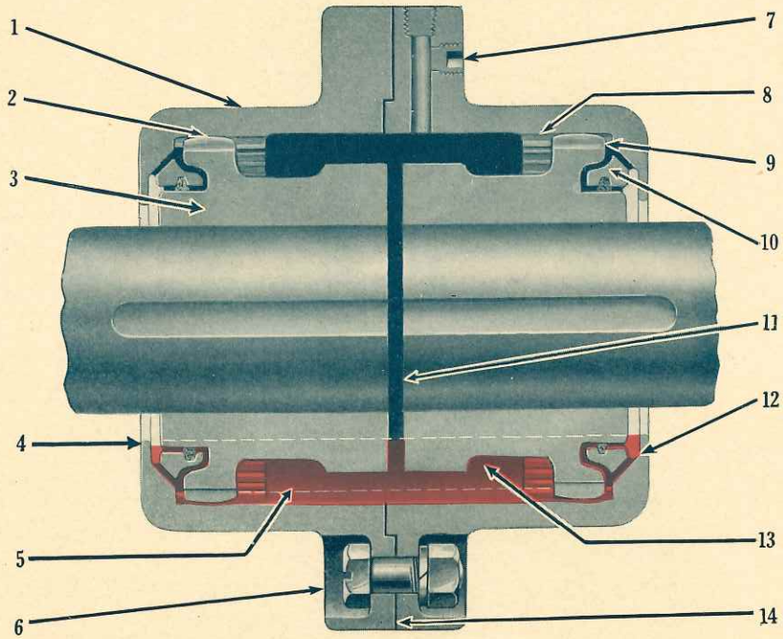
The POOLE FLEXIBLE COUPLING is suitable to all conditions of service. It operates equally well in either direction, continuous or reversing, and at high or low speeds.

Its strength is greater in all cases than the connecting shafts. It is self contained, symmetrical in design and completely protected from dust and dirt.

Its large area of lubricated surface permits an effectual cushioning of torsional shock.

The POOLE FLEXIBLE COUPLING is a high grade product built by makers of fine machinery for more than eighty-five years.

THE POOLE FLEXIBLE COUPLING AT A GLANCE



1—Floating sleeve, with an internal gear at each end meshing with gears on the end of each shaft hub.

2—Gear teeth with sperically formed crowns on each hub support the floating sleeve and allow free rocking action to compensate for shaft misalignment without friction or binding at any point.

3—Solid shaft hub, with a spur gear at one end, which is pressed on and keyed to the shaft.

4—Oil level with coupling at rest. Coupling is filled with oil until oil begins to run out around the shaft hub.

5—Oil level when coupling is running. Oil spreads around the innter circumference, submerges all teeth and bearing surfaces and due to centrifugal pressure maintains an oil film to cushion shocks and prevent wear.

6—All bolt holes counterbored to receive bolt heads and nuts, affording safety of operation and eliminating windage.

7—One oil hole with removable safety plug for filling coupling with oil.

8—Long gear teeth in sleeve so that the hub and sleeve are never disengaged with maximum end float.

9—Gear teeth in mesh around entire circumference giving large load carrying capacity, greater in all cases than that of the shaft.

10—Clearance space between end wall of sleeve and hub to allow free end float to each shaft.

11—Clearance space between hub faces to allow free end float to each shaft.

12—Felt packing ring which excludes dust and dirt but allows coupling flexibility.

13—Oil reservoir which should be kept filled with good lubricating oil, ensuring positive lubrication during operation to all bearing surfaces.

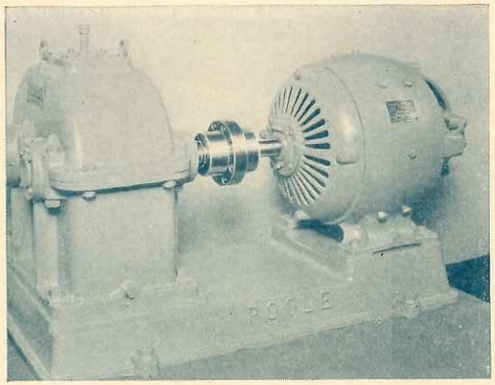
14—Hydroil gasket between flanges to ensure oil tight joint.

TYPICAL INSTALLATIONS

On succeeding pages are shown a few typical Installations of POOLE FLEXIBLE COUPLINGS.

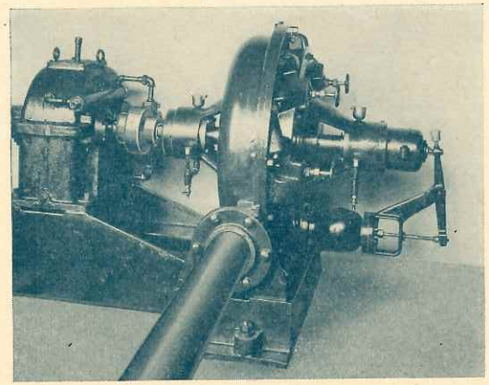
We heartily invite inquiries to any of our customers regarding their experiences with POOLE COUPLINGS.

Testimonials of this character always help to provide new friends and more Poole Coupling users.



Left:—

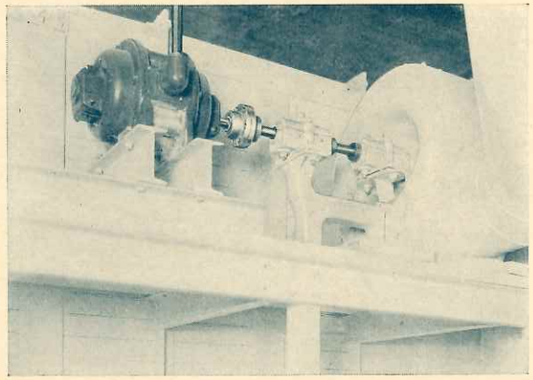
Typical Poole Flexible Coupling installation between Electric Motor and Poole Reduction Gear.

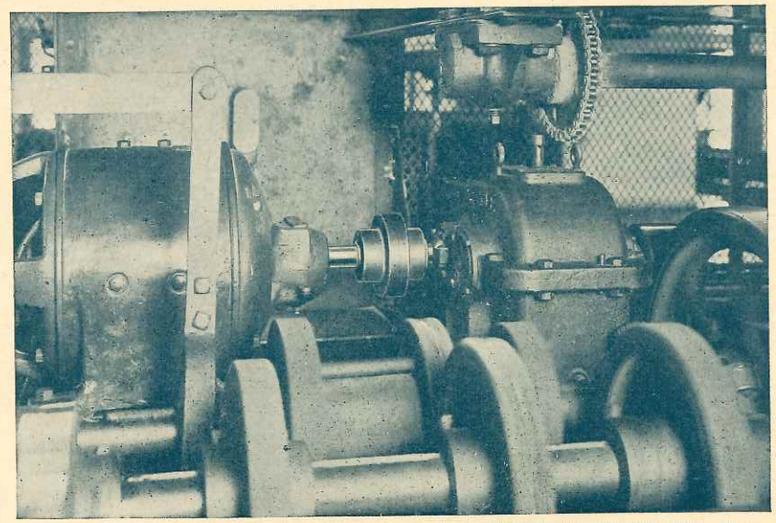


Above: — High Speed Turbine Drive (3600 R.P.M.) through Standard Poole Flexible Coupling.

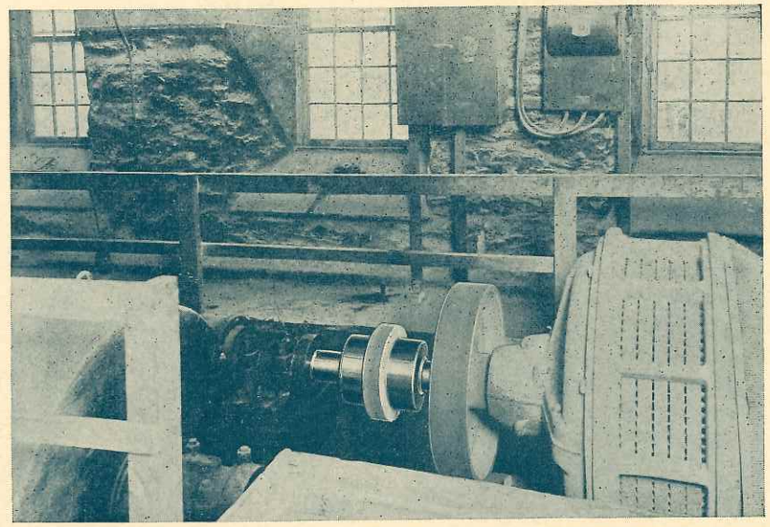
Right:—

Electric Driven Blower using Poole Flexible Coupling.

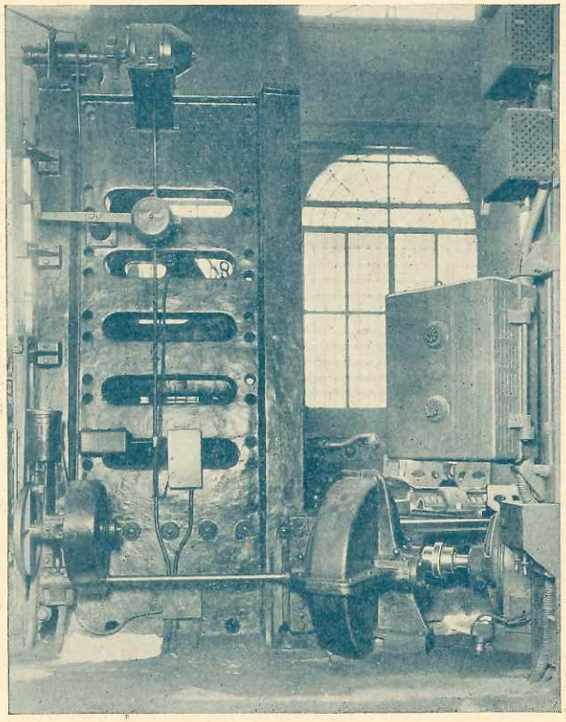




Special chemical Mixing Machine driven by a standard Poole Flexible Coupling, also using Poole type "H" Reduction Gear.



The only successful coupling ever used on this drive—a heavy service rubber mill calendar drive. All troubles have been eliminated since the installation of a standard Poole Flexible Coupling.



Left:—

Reversing service at its hardest. This Poole Flexible Coupling has given several years continuous service driving this 10′ x 10′ Open Side Planer without showing the slightest sign of wear.

Poole Flexible Couplings drive this modern gasoline locomotive.

ENGINEERING SERVICE

It is our desire and aim always to assist our good friends and customers to the fullest possible extent, and for this reason we maintain a complete Service and Engineering Department, anxious and willing at all times to help with your engineering problems and make suitable recommendations to suit various requirements.

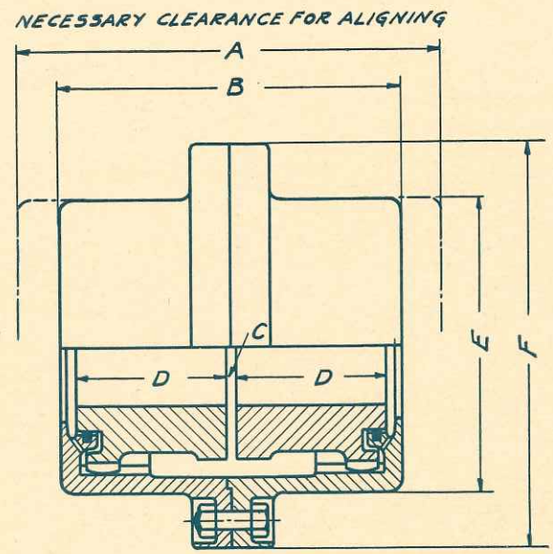
THE POOLE STANDARD FLEXIBLE COUPLING

The following pages, Nos. 15 and 16, show the general dimensions, ratings, weights, etc., of the Poole Standard Flexible Coupling.

Sizes No. 1½ to No. 5 inclusive are made of Forged Steel with the end plates integral with sleeves.

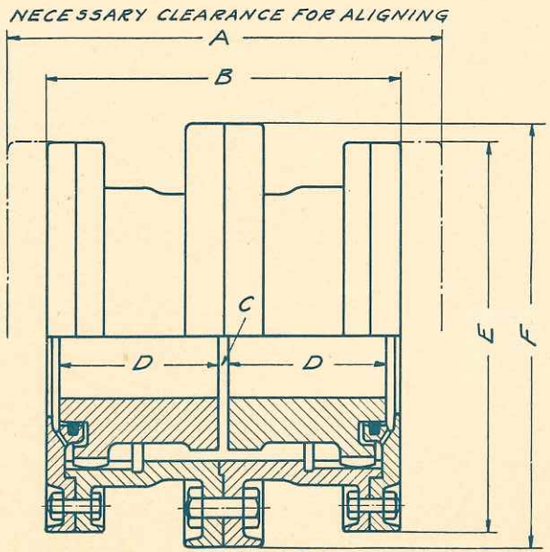
Sizes No. 6 and larger are made of Cast Steel, and for convenience in handling the end plates are bolted to the sleeves.

The Coupling number indicates the maximum shaft size, which can not be exceeded except in special cases where the load is light and shallow keyways can be used.



POOLE STANDARD FLEXIBLE COUPLING

Coupling Number and Maximum Bore	H. P. Capacity per 100 R.P.M.	Maximum Speed in R.P.M.	DIMENSIONS IN INCHES						Oil Capacity in Pints	Net Weight in Pounds	Shipping Weight in Pounds	Coupling Number and Maximum Bore
			A	B	C	D	E	F				
1½	10.5	11700	5⅜	4⅜	1/8	1 29/32	3 7/16	5 9/16	¼	13	18	1½
2	24.8	9300	6¾	5½	1/8	2 7/16	4½	6 11/16	⅓	23	29	2
2½	48.5	7820	8⅛	6¾	3/16	3	5⅝	8 5/16	½	42	51	2½
3	83.8	6800	9½	8	3/16	3 19/32	6⅝	9⅜	¾	65	79	3
3½	133.0	5900	11	9¼	¼	4⅛	7¾	11 3/16	1	104	124	3½
4	198.0	5300	12¼	10⅜	¼	4 11/16	8⅞	12¼	1¼	145	174	4
4½	283.0	4700	14½	11¾	5/16	5 9/32	10	13⅞	2	204	240	4½
5	387.0	4330	15⅞	12⅞	5/16	5 27/32	11 1/16	15	2½	265	310	5



POOLE STANDARD FLEXIBLE COUPLING

Coupling Number and Maximum Bore	H. P. Capacity per 100 R.P.M.	Maximum Speed in R.P.M.	DIMENSIONS IN INCHES						Oil Capacity in Pints	Net Weight in Pounds	Shipping Weight in Pounds	Coupling Number and Maximum Bore
			A	B	C	D	E	F				
6	670	3300	18¾	15¼	5/16	7	16½	17⅜	4	490	560	6
7	1065	2900	21¾	17¾	⅜	8 3/16	18¾	19⅝	6	775	875	7
8	1590	2550	24½	20	⅜	9¼	21¾	22½	9	1135	1275	8
9	2260	2250	27	22⅜	7/16	10⅜	24¼	25¾	12	1560	1760	9
10	3100	2000	29¼	24⅝	7/16	11 7/16	26½	28	17	2160	2400	10
11	4125	1800	32¼	27¼	½	12⅝	29⅛	31¾	23	2720	3000	11
12	5350	1600	35	29½	½	13¾	31¼	34⅛	30	3560	3900	12

NOTE: Larger sizes furnished as required.

OTHER TYPES

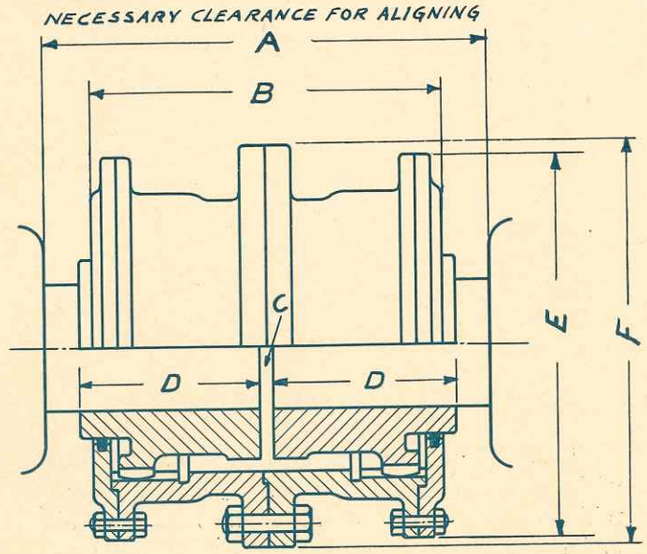
The following pages show some of the various applications of Poole Flexible Couplings which have been developed to suit all forms of mechanical operating conditions.

In addition to our standard and other types we are prepared to furnish Flexible Couplings of any type and capacity to meet any special purpose or condition of service.

Our engineering department will gladly furnish designs and estimates on any problems of power transmission to meet your requirements.

HEAVY DUTY MILL TYPE

This coupling is made especially rugged, of cast steel, with standard through bolts in all flanges exposed for accessibility and intended for the severest kind of steel mill service. It is fully enclosed, dust and moisture proof.



HEAVY DUTY MILL TYPE

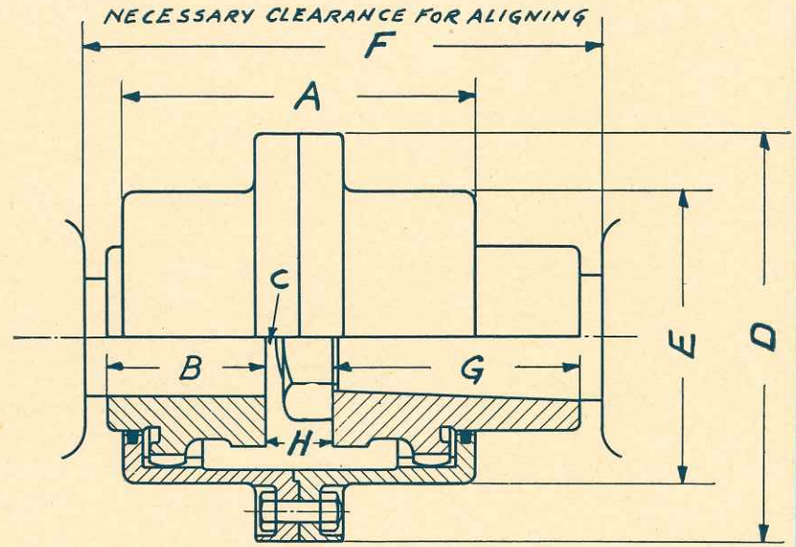
Coupling Number and Maximum Bore	H. P. Capacity per 100 R.P.M.	Maximum Speed in R.P.M.	DIMENSIONS IN INCHES						Oil Capacity in Pints	Net Weight in Pounds	Shipping Weight in Pounds	Coupling Number and Maximum Bore
			A	B	C	D	E	F				
6	670	3300	19¼	15¼	5/16	7¾	16½	17⅜	4	500	575	6
7	1065	2900	22	17⅞	⅜	9	18¾	19⅝	6	800	900	7
8	1590	2550	24½	20	⅜	10 7/16	21¾	22½	9	1200	1350	8
9	2260	2250	27	22½	⅜	11¾	24¼	25¾	12	1600	1800	9
10	3100	2000	29¼	24½	½	13	26½	28	17	2200	2450	10
11	4125	1800	32¼	26¾	½	14	29⅛	31¾	23	2800	3050	11
12	5350	1600	35	29	½	15¼	31¼	34⅛	30	3600	3900	12
13	6800	1450	37	30⅜	¾	16	33½	36	36	4500	4800	13
14	8500	1300	39	32	¾	16¾	35½	38	42	5500	5850	14
15	10500	1150	40½	34⅛	¾	18	37½	40½	46	6600	6950	15
16	12000	1000	42	36½	¾	19⅛	40	43	50	7700	8100	16

NOTE: Larger sizes furnished as required.

MILL MOTOR TYPE

This is the standard Poole Flexible Coupling with one hub made to fit the tapered shaft of a mill type motor. It is fully enclosed, dust and moisture proof.

We are prepared to furnish this Coupling out of stock to suit any type of mill motor shaft, and the hub separation shown can be made as required to suit the coupling lock nut, or can be counterbored if required.



MILL MOTOR TYPE

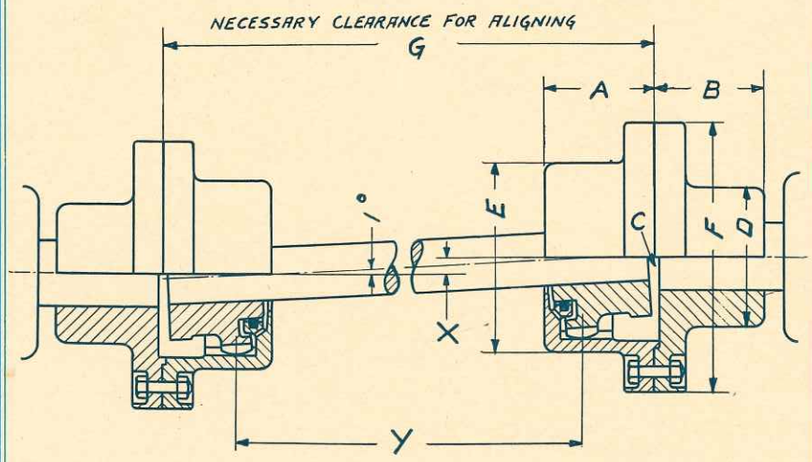
Coupling Number and Maximum Bore	H. P. Capacity per 100 R.P.M.	Maximum Speed in R.P.M.	DIMENSIONS IN INCHES								Oil Capacity in Pints	Net Weight in Pounds	Shipping Weight in Pounds	Coupling Number and Maximum Bore
			A	B	C	D	E	F	G	H				
1½	10.5	11700	4¼	2 5/16	⅛	5 9/16	3 7/16	To Suit Requirements			¼	15	20	1½
2	24.8	9300	5½	2 15/16	⅛	6 11/16	4½				⅓	28	35	2
2½	48.5	7820	6¾	3 5/8	3/16	8 5/16	5 5/8				½	50	60	2½
3	83.8	6800	8	4¼	3/16	9 3/8	6 5/8				¾	72	85	3
3½	133.0	5900	9¼	4 15/16	¼	11 3/16	7¾				1	115	125	3½
4	198.0	5300	10 3/8	5½	¼	12¼	8 7/8				1¼	160	190	4
4½	283.0	4700	11¾	6¼	5/16	13 7/8	10				2	230	270	4½
5	387.0	4330	12 7/8	6 7/8	5/16	15	11 1/16				2½	290	340	5

NOTE: Larger sizes furnished as required.

EXTENDED TYPE
(For Excessive Misalignment)

This Coupling consists of a Standard Poole Flexible Coupling with each half bolted to rigid members which are fitted to the driving and driven shafts. The two halves of the Flexible Coupling are connected together by an intermediate shaft of any desired length. The maximum angular misalignment may be 1° in any direction. The maximum offset misalignment "X" depends on the distance "Y" between the centers of coupling teeth. This allowance is approximately 3/16″ offset per foot of distance "Y."

As the Flexible members used in the Coupling are standard throughout, deliveries of this type can be made practically from stock.



EXTENDED TYPE

Coupling Number and Maximum Bore	H. P. Capacity per 100 R.P.M.	Maximum Speed in R.P.M.	DIMENSIONS IN INCHES							Total Oil Capacity in Pints	Net Wt. in Lbs. of Complete Coupl. Without Shaft	Shipping Weight in Pounds	Coupling Number and Maximum Bore
			A	B	C	D	E	F	G				
1½	10.5	11700	2 3/16	2	1/8	3	3 7/16	5 9/16	To Suit Requirements	¼	26	35	1½
2	24.8	9300	2 ¾	2 5/8	1/8	4	4½	6 11/16		⅓	47	58	2
2½	48.5	7820	3 3/8	3¼	3/16	5	5 5/8	8 5/16		½	86	102	2½
3	83.8	6800	4	3 7/8	3/16	6	6 5/8	9 3/8		¾	133	158	3
3½	133.0	5900	4 5/8	4½	¼	7	7¾	11 3/16		1	214	250	3½
4	198.0	5300	5 3/16	5	¼	8	8 7/8	12¼		1¼	302	354	4
4½	283.0	4700	5 7/8	5 5/8	5/16	9	10	13 7/8		2	426	491	4½
5	387.0	4330	6 7/16	6¼	5/16	10	11 1/16	15		2½	552	634	5

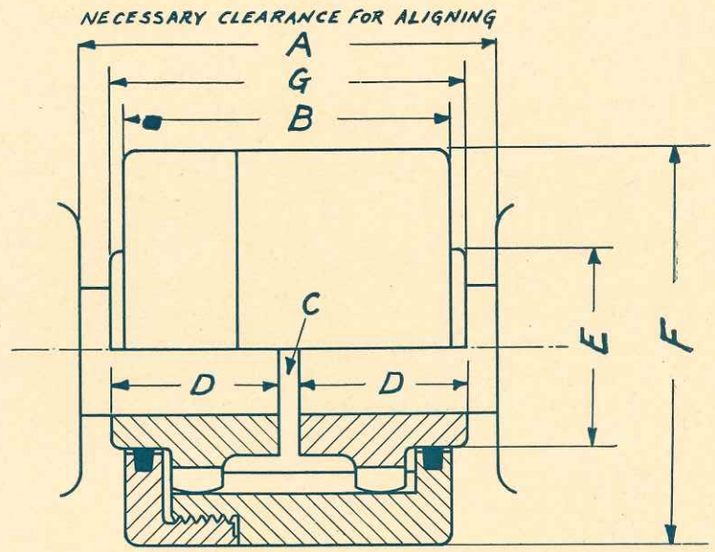
NOTE: Larger sizes furnished as required.

LIGHT DUTY TYPE

This Coupling possesses the same features as the Standard Poole Flexible Coupling and is adaptable for light drives up to 1″ shaft size.

All parts are made of steel bar stock. It is lubricated, fully enclosed, dust and moisture proof.

This Coupling has no exposed or projecting parts. It is perfectly balanced and especially efficient on all types of high speed drives.



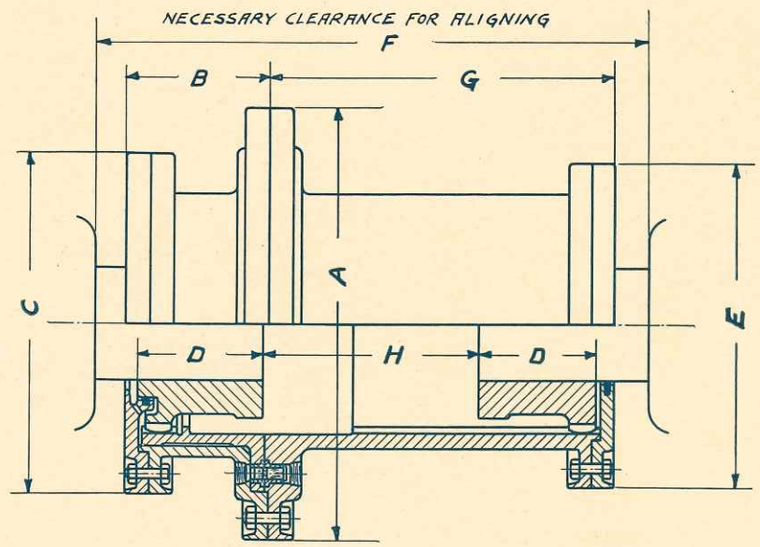
LIGHT DUTY TYPE

Coupling Number and Maximum Bore	H. P. Capacity per 100 R.P.M.	Maximum Speed in R.P.M.	DIMENSIONS IN INCHES							Net Weight in Pounds	Shipping Weight in Pounds	Coupling Number and Maximum Bore
			A	B	C	D	E	F	G			
1	3	15000	3½	2⅛	⅛	1⅛	1½	2¾	2⅜	3	5	1

JORDAN ENGINE TYPE

This coupling is used where considerable lateral movement of either shaft is required while in operation. It consists of one half of a standard Poole Flexible Coupling with the other half made of sufficient length to provide the lateral movement required.

It is especially applicable to the Jordan engines in paper mills or any machinery requiring lateral adjustment. It is usually made with shear pin feature as shown, to prevent injury to the machinery in case of sudden stoppage, but can be furnished without shear pins if desired.



JORDAN ENGINE TYPE

Coupling Number and Maximum Bore	H. P. Capacity per 100 R.P.M.	Maximum Speed in R.P.M.	DIMENSIONS IN INCHES								Oil Capacity in Pints	Net Weight in Pounds	Shipping Weight in Pounds	Coupling Number and Maximum Bore
			A	B	C	D	E	F	G	H				
4	97	2600	14 1/4	5 3/16	9 5/8	4 11/16	8 3/4	To Suit Require-ments				275	325	4
4 1/2	140	2200	16 1/4	5 7/8	14 1/4	5 9/32	13 1/8					390	450	4 1/2
5	192	2000	18 1/4	6 7/16	15 1/2	5 27/32	14 1/8					500	575	5
6	336	1600	21 1/4	7 5/8	18 7/8	7	17 5/8					775	850	6

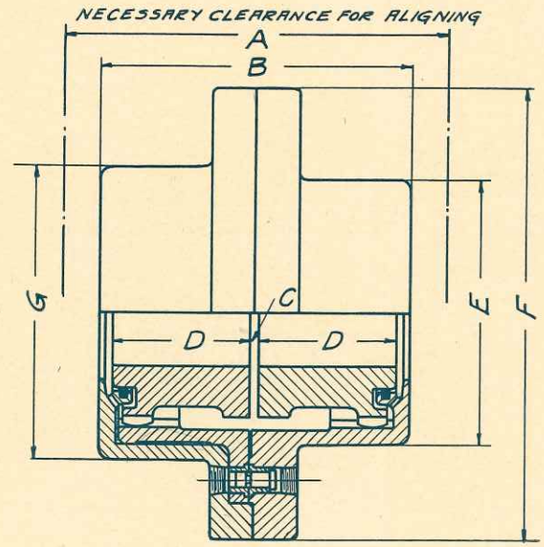
NOTE: Larger sizes furnished as required.

POOLE FLEXIBLE SHEAR PIN COUPLING

The following pages, Nos. 29 and 30, show the general dimensions, ratings, weight, etc., of the Poole Flexible Shear Pin Coupling. This coupling possesses all the features of the Poole standard flexible coupling, with the additional safety features of a renewable breaking pin incorporated in this coupling. The power from the driving to driven shafts is transmitted through one or more of these breaking pins, the material, size and number of pins made so as to break at some predetermined load, to prevent injury to the driving machinery.

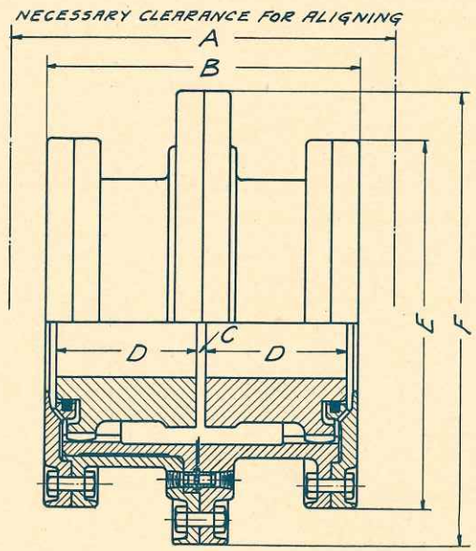
When in operation, the coupling is filled with oil, which submerges all teeth and contact surfaces, so that if the pins break, the driven shaft and outer sleeve stop rotating, but the driving sleeve attached to the driving shaft continues to rotate in a bearing which is positively lubricated by the oil contained in the coupling.

The broken shear pins can be quickly and easily renewed without disassesmbling the coupling. This shear pin feature can be applied to any of the special types of Poole Flexible Couplings.



POOLE FLEXIBLE SHEAR PIN COUPLING

Coupling Number and Maximum Bore	H. P. Capacity per 100 R.P.M.	Maximum Speed in R.P.M.	DIMENSIONS IN INCHES							Oil Capacity in Pints	Net Weight in Pounds	Shipping Weight in Pounds	Coupling Number and Maximum Bore
			A	B	C	D	E	F	G				
1½	5.3	6000	5¼	4⅜	⅛	1 29/32	3 7/16	7	4	¼	24	30	1½
2	12.4	4800	6¾	5½	⅛	2 7/16	4½	8	5⅛	⅓	35	42	2
2½	24.3	4000	8¼	6¾	3/16	3	5⅝	10	6¼	½	64	75	2½
3	42.0	3400	9¾	8	3/16	3 19/32	6⅝	11⅛	7¼	¾	92	108	3
3½	67.0	3000	11⅜	9¼	¼	4⅛	7¾	13⅛	8½	1	146	168	3½
4	97.0	2600	12¾	10⅜	¼	4 11/16	8¾	14¼	9⅝	1¼	195	225	4



POOLE FLEXIBLE SHEAR PIN COUPLING

Coupling Number and Maximum Bore	H. P. Capacity per 100 R.P.M.	Maximum Speed in R.P.M.	DIMENSIONS IN INCHES						Oil Capacity in Pints	Net Weight in Pounds	Shipping Weight in Pounds	Coupling Number and Maximum Bore
			A	B	C	D	E	F				
4½	140	2200	14½	11¾	5/16	5 9/32	14¼	16½	2	331	366	4½
5	192	2000	15⅞	12⅞	5/16	5 27/32	15⅜	18¼	2½	438	480	5
6	336	1600	18¾	15¼	5/16	7	17⅝	21¼	4	684	760	6
7	532	1400	21¾	17¾	⅜	8 3/16	20	23⅞	6	1065	1175	7
8	795	1200	24½	20	⅜	9¼	23⅜	26⅞	9	1545	1685	8

NOTE: Larger sizes furnished as required.

DATA TO BE FURNISHED WHEN ORDERING POOLE FLEXIBLE COUPLINGS

Horsepower to be transmitted.

Kind of machines connected (driver and driven).

Speed of connecting shafts (R. P. M.).

Diameter of each shaft (micrometer measurement if possible).

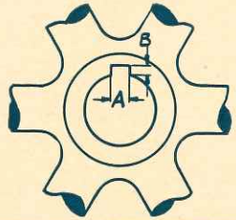
Size of keyway in each shaft.

Length of each shaft extension.

With the above information, our Engineering Department will recommend the proper type and size coupling for any application.

All couplings are regularly furnished for a light press fit on the shafts and with Poole standard keyways (as shown on page 32) unless otherwise ordered.

POOLE STANDARD KEYWAYS



DIA. OF HOLE	WIDTH A	DEPTH B
15/16 TO 1 3/16 INC.	1/4	1/8
1 1/4 TO 1 3/8 "	5/16	5/32
1 7/16 TO 1 11/16 "	3/8	3/16
1 3/4 TO 1 7/8 "	7/16	7/32
1 15/16 TO 2 1/4 "	1/2	1/4
2 5/16 TO 2 3/4 "	5/8	5/16
2 13/16 TO 3 1/4 "	3/4	3/8
3 5/16 TO 3 3/4 "	7/8	5/16
3 13/16 TO 4 1/2 "	1	3/8
4 9/16 TO 5 1/2 "	1 1/4	7/16
5 9/16 TO 6 1/2 "	1 1/2	1/2
6 9/16 TO 7 1/2 "	1 3/4	5/8
7 9/16 TO 9 "	2	11/16
9 1/16 TO 11 "	2 1/2	13/16
11 1/16 TO 13 "	3	1

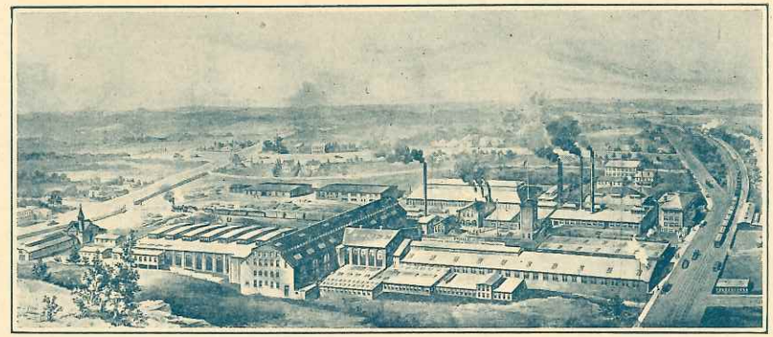
All Poole Flexible Couplings will be furnished with standard keyways as shown unless otherwise ordered.

AN INTERESTING BACKGROUND

Our firm was founded in 1842 by the late Robert Poole of Baltimore.

In 1851 Mr. German H. Hunt became associated with Mr. Poole under the name of Poole and Hunt.

Their business increased steadily over a number of years and later, after the retirement of Mr. Hunt, the concern was incorporated under the name of The Poole Engineering & Machine Company.



Throughout its 87 years of experience The Poole Company has been manufacturing fine machinery of various types and today we are carrying this tradition through our various manufacturing activities.

Our slogan of "Poole Quality and Service" is one which each and every member of this organization is striving to fulfill and maintain.

In addition to our standardized line of products, our facilities are especially well suited for the manufacture and production of special equipment from Engineers' drawings and specifications.

(Continued on Page 36)

THE POOLE ENGINEERING AND MACHINE CO.

Our present and ever increasing facilities comprise a factory covering about 16 acres in which is included a large Gray Iron Foundry, Machine Shops, Forge Shop, Pattern Shop, Tool Room and spacious assembly floors with Pennsylvania R.R. trackage system throughout the Plant.

It is our desire and aim always to assist our good friends and customers to the fullest possible extent and for this reason we maintain complete Service and Engineering Departments anxious and willing at all times to help with your engineering problems and make suitable recommendations to suit the various requirements.

THE POOLE ENGINEERING & MACHINE CO.

BALTIMORE, MARYLAND, U.S.A.

POOLE FLEXIBLE COUPLINGS

THE POOLE ENGINEERING AND MACHINE CO.

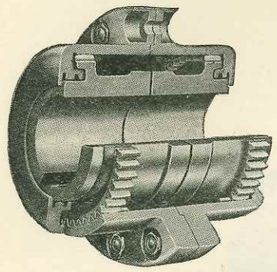
District Representatives

Chicago	549 W. Washington St.	Reitz Sales Co.
Cleveland	226 Superior Ave., N. W.	J & B Mechanical Supply Co.
Los Angeles	Bradbury Building	King Knight Company
New York City	50 Church Street	Bartlett Fisher
Philadelphia	108 Walnut Street	Brackett Company
Pittsburgh	Union Trust Building	George M. Demorest
Salt Lake City	101 W. 2nd South Street	National Equipment Co.
San Francisco	602 Balboa Building	King Knight Company
Seattle	3322 White-Henry-Stewart Building	King Knight Company
Wilkes-Barre District	147 Gaylord Avenue, Plymouth, Pa.	David Davies
Connecticut	Bridgeport, Norwich, New Haven	Pump & Equipment Co.

POOLE ENGINEERING & MACHINE CO.

MACHINE MOULDED & CUT GEARS — SPEED REDUCTION GEARS
FLEXIBLE COUPLINGS
ENGINEERS FOUNDERS MACHINISTS

BALTIMORE, MD.



December 13, 1929

Mr. Cecil Latimer
Department of Commerce
United States Patent Office
Washington, D. C.

Dear Sir:-

We are in receipt of your letter of December 11th, requesting copy of our Flexible Coupling Hand Book, and are pleased to inform you that we are sending you under separate cover a copy of the hand book as requested.

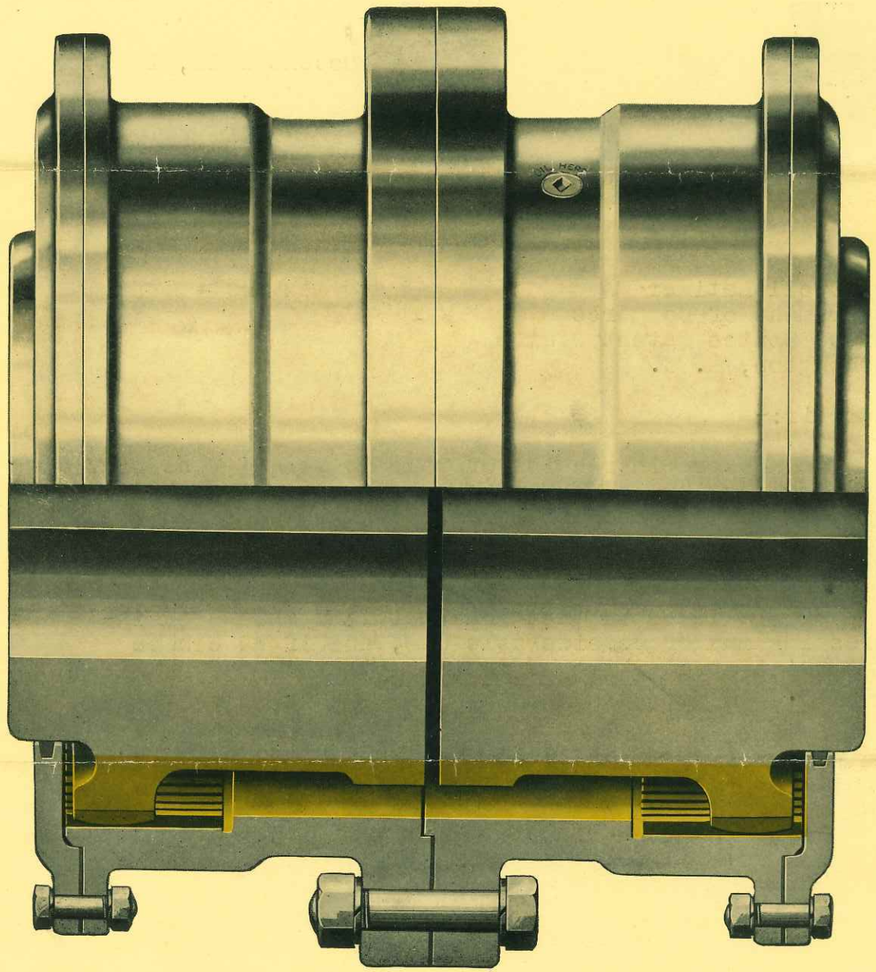
It is hoped that you will find this book interesting and of considerable use, and if we can be of service at any time we would appreciate your calling upon us.

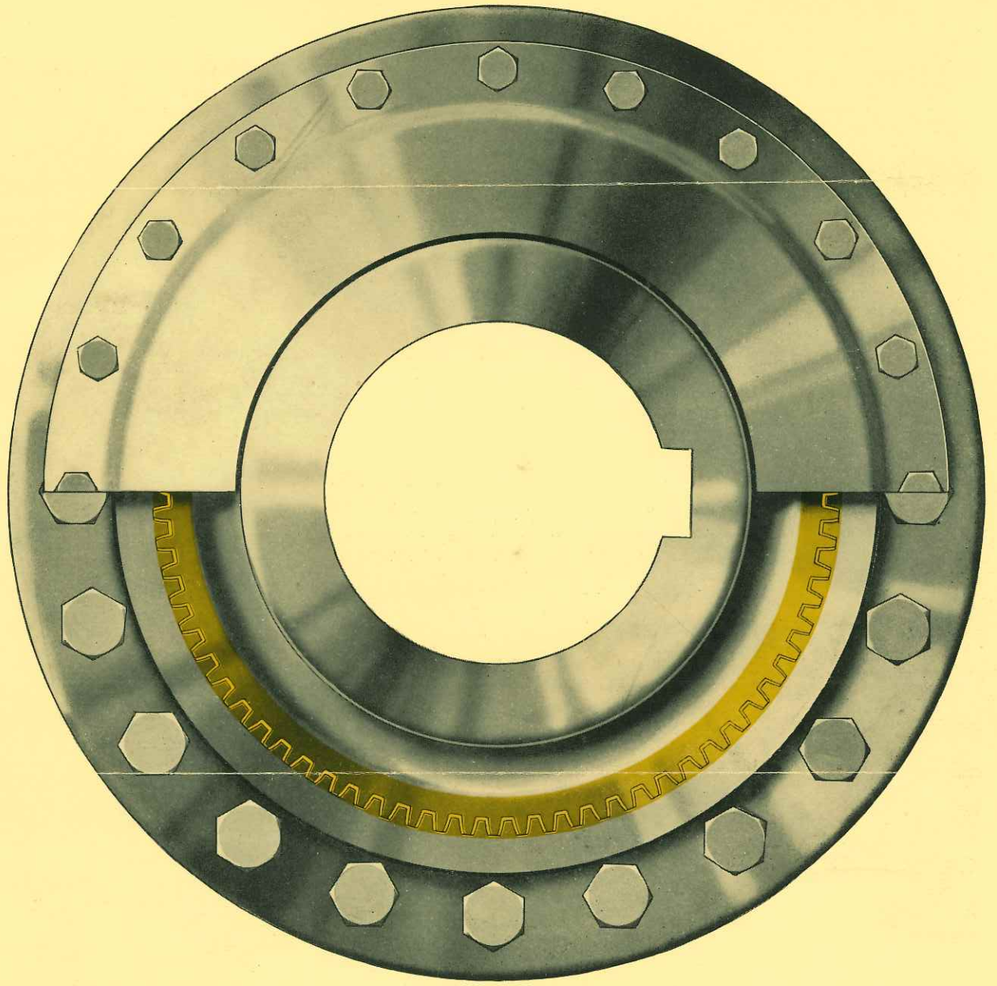
Very truly yours,

POOLE ENGINEERING & MACHINE CO.

LMR:GS

Poole Flexible Couplings





Heavy Duty Mill Type

A TYPE FOR EVERY PURPOSE IS ILLUSTRATED IN OUR FLEXIBLE COUPLING HANDBOOK